

Anti-PKC  $\alpha$  Rabbit pAb

WL02234

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-PKC $\alpha$ Rabbit pAb	
<b>Source</b>	Rabbit	
<b>Species reactivity</b>	Human, Mouse, Rat	
<b>Tested applications</b>	Western blot	1:500-1:1000
	Immunohistochemistry	1:200-1:300
	<i>*Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.</i>	
<b>Molecular Wt.</b>	80 kDa	
<b>Pack size</b>	50/100/200/500/1000 $\mu$ l	
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide	

## General Information

**Background** Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. Diacylglycerols (DAG) and tumor-promoting phorbol esters bind to and activate PKC. PKC $\alpha$  has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes.

**Immunogen** Polyclonal antibody is produced by immunizing animals with a synthetic peptide of PKC  $\alpha$ .

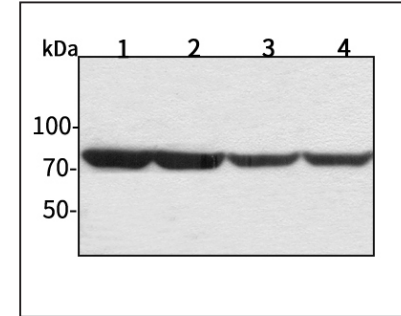
**Purification** Polyclonal antibody was purified by immunogen affinity chromatography.

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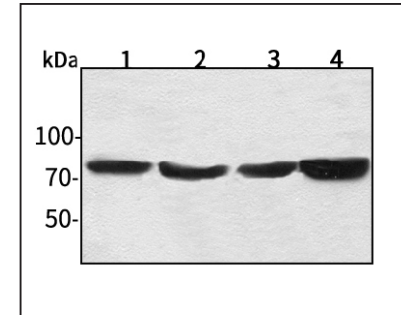
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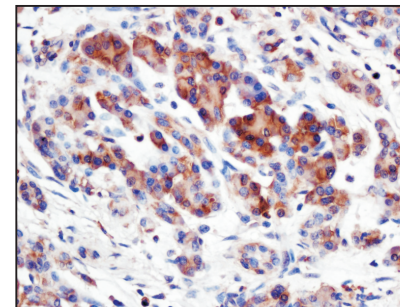
## Product Images

Western blot-Anti-PKC  $\alpha$  pAb

Lane 1: Human HepG2 cell lysate 30 $\mu$ g  
 Lane 2: Human Hela cell lysate 30 $\mu$ g  
 Lane 3: Human BGC-823 cell lysate 30 $\mu$ g  
 Lane 4: Human MGC-803 cell lysate 30 $\mu$ g  
 Separation gel: 8% polyacrylamide  
 Electrophoresis: 100V, 4°C, 3h  
 Transmembrane: 100V, 4°C, 1h  
 Blocking: 5% w/v nonfat dry milk, 1 $\times$  TBST, at RT with gentle shaking  
 Primary antibody: 1:1000 in blocking buffer, 4°C, overnight  
 Secondary antibody (WLA023a) : 1:5000-1:10000, 45min  
 Detection: ECL, 30s-2min

Western blot-Anti-PKC  $\alpha$  pAb

Lane 1: Mouse testicle tissue lysate 20 $\mu$ g  
 Lane 2: Mouse lung tissue lysate 20 $\mu$ g  
 Lane 3: Rat liver tissue lysate 20 $\mu$ g  
 Lane 4: Rat brain tissue lysate 20 $\mu$ g  
 Separation gel: 8% polyacrylamide  
 Electrophoresis: 100V, 4°C, 3h  
 Transmembrane: 100V, 4°C, 1h  
 Blocking: 5% w/v nonfat dry milk, 1 $\times$  TBST, at RT with gentle shaking  
 Primary antibody: 1:1000 in blocking buffer, 4°C, overnight  
 Secondary antibody (WLA023a) : 1:5000-1:10000, 45min  
 Detection: ECL, 30s-2min

Immunohistochemistry-Anti-PKC  $\alpha$  pAb

Sample: Human pancreatic cancer tissue  
 Antigen retrieval: pH 9.0 Tris-EDTA buffer  
 Primary antibody: 1:300, 4°C, overnight  
 Secondary antibody-Biotin: 1:150, 37°C, 1h  
 Streptavidin-HRP: 1:200, 37°C, 30min  
 Color Developing: DAB

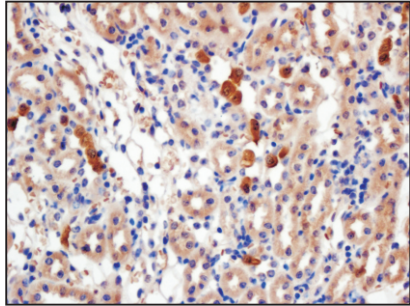
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#### Immunohistochemistry-Anti-PKC $\alpha$ pAb

**Sample:** Mouse kidney tissue  
**Antigen retrieval:** pH 9.0 Tris-EDTA buffer  
**Primary antibody:** 1:200, 4°C, overnight  
**Secondary antibody-Biotin:** 1:150, 37°C, 1h  
**Streptavidin-HRP:** 1:200, 37°C, 30min  
**Color Developing:** DAB